**Macromolecules Review Activity (Answers)**

1.

carbonyl (aldehyde) – carbohydrates

carbonyl (ketone) – carbohydrates, sterols

hydroxyl – carbohydrates, sterols, some proteins

2.

carboxyl – fatty acids, amino acids

amino – amino acids

phosphate – nucleic acids, phospholipids

3. both are carbohydrates (monosaccharides)

4. disaccharide (it’s maltose); glycosidic linkage

5. polysaccharide (it’s amylose)

6. fatty acids a. saturated

b. unsaturated

7. triglyceride; ester linkage

8. phospholipid

9. sterols

10. amino acids; peptide bonds

11. (CH2O)n

12. triglycerides (fats), phospholipids, sterols, waxes

13. 5-carbon sugar, nitrogenous base, phosphate group

14. dehydration synthesis (condensation) builds; hydrolysis breaks down